DEPARTMENT of ENVIRONMENTAL SERVICES Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: SEAVER	RESERVOIR	Lake Area (ha):	18.21
Town:	HARRISVILLE	Maximum depth (m):	6.1
County:	Cheshire	Mean depth (m):	3.2
River Basin:	Connecticut	Volume (m³):	576500
Latitude:	42°56'35" N	Relative depth:	1.3
Longitude:	72°07'45" W	Shore configuration:	1.00
Elevation (ft	1200	Areal water load (m/y)	:): 31.93
Shore length	(m): 1400	Flushing rate (yr ⁻¹):	10.10
Watershed are	ea (ha): 1043.5	P retention coeff.:	0.42
% watershed p	onded: 17.3	Lake type: a:	ctificial

BIOLOGICAL:	22 January 1991	6 September 1990
DOM. PHYTOPLANKTON (% TOTAL) #1	DINOBRYON 40%	MALLOMONAS 85%
#2	ASTERIONELLA 35%	SYNURA 15%
#3	TABELLARIA 20%	
PHYTOPLANKTON ABUNDANCE (cells/mL)		475.0
CHLOROPHYLL-A (µg/L)		3.56
DOM. ZOOPLANKTON (% TOTAL) #1	SYNCHAETA 84%	KERATELLA 35%
#2	KERATELLA 7%	KELLICOTTIA 26%
#3	KELLICOTTIA 6%	COLLOTHECA 22%
ROTIFERS/LITER	647	150
MICROCRUSTACEA/LITER	13	28
ZOOPLANKTON ABUNDANCE (#/L)	660	178
VASCULAR PLANT ABUNDANCE		Common
SECCHI DISK TRANSPARENCY (m)		4.8
BOTTOM DISSOLVED OXYGEN (mg/L)	12.0	6.2
BACTERIA (fecal col., #/100 ml) #1		< 1
#2		
#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None Hypolimnion volume (m^3) : None Anoxic volume (m^3) : None

CHEMICAL: Lake: SEAVER RESERVOIR Town: HARRISVILLE 22 January 1991 6 September 1990 2.0 DEPTH (m) 2.0 4.0 5.6 6.2 6.2 pH (units) 1.6 1.3 1.3 A.N.C. (Alkalinity) 0.11 < 0.05 < 0.05 NITRATE NITROGEN 0.12 TOTAL KJELDAHL NITROGEN 0.16 0.12 0.010 0.010 TOTAL PHOSPHORUS 0.011 CONDUCTIVITY (µmhos/cm) 57.9 38.5 37.2 27 19 20 APPARENT COLOR (cpu) **MAGNESIUM** 0.57 CALCIUM 1.1 SODIUM 3.8 **POTASSIUM** 0.60 CHLORIDE 5 5 8 SULFATE 7 5 5 TN : TP 11 12 27

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1990

CALCITE SATURATION INDEX

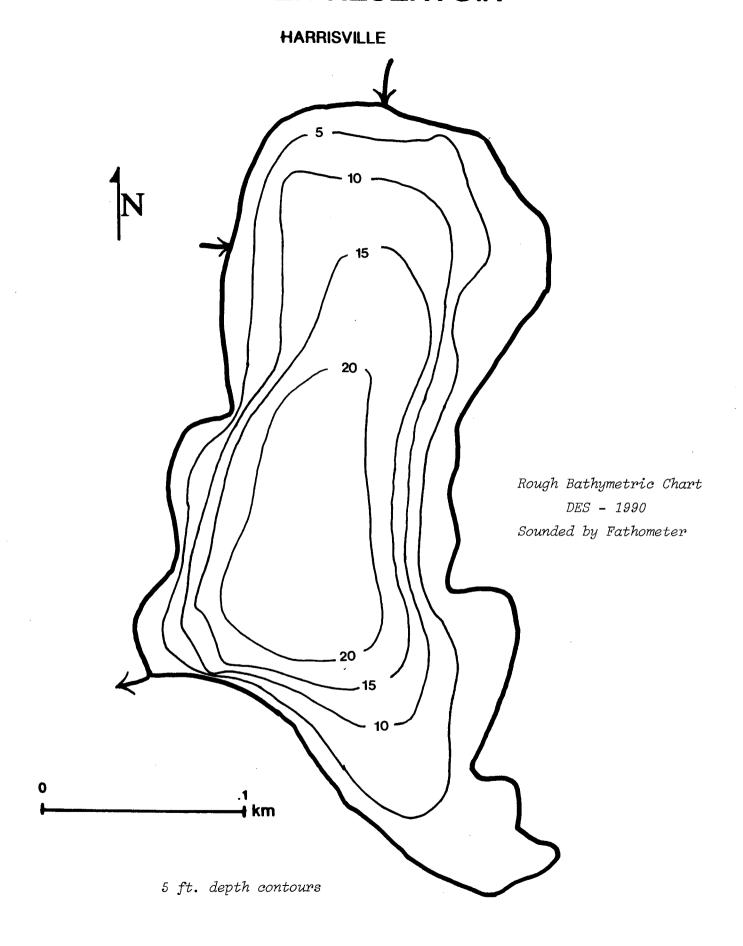
D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	2	3	0	5	Meso.

5.0

COMMENTS:

- 1. Small boat launch; no parking except along side the road; no restrictions on the use of the site.
- 2. Also known as Unnamed Pond #3.
- 3. This reservoir has an earthern dam; water exits the reservoir through a stand pipe.
- 4. No cottages were located on the reservoir.
- 5. Merismopedia (50%) was the dominant genus of wholewater phytoplankton.

SEAVER RESERVOIR



FIELD DATA SHEET

LAKE: SEAVER RESERVOIR

TOWN: HARRISVILLE

DATE: 09/06/90 WEATHER: MOSTLY OVERCAST; CALM-MID 70'S

DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
0.1	23.8	8.0	93 %
1.0	23.2	8.0	93 %
2.0	23.0	8.0	93 %
3.0	23.0	8.0	93 %
4.0	23.0	7.5	87 %
5.0	23.0	7.2	84 %
5.5	22.9	6.2	71 %
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SECCHI DISK (m): 4.8

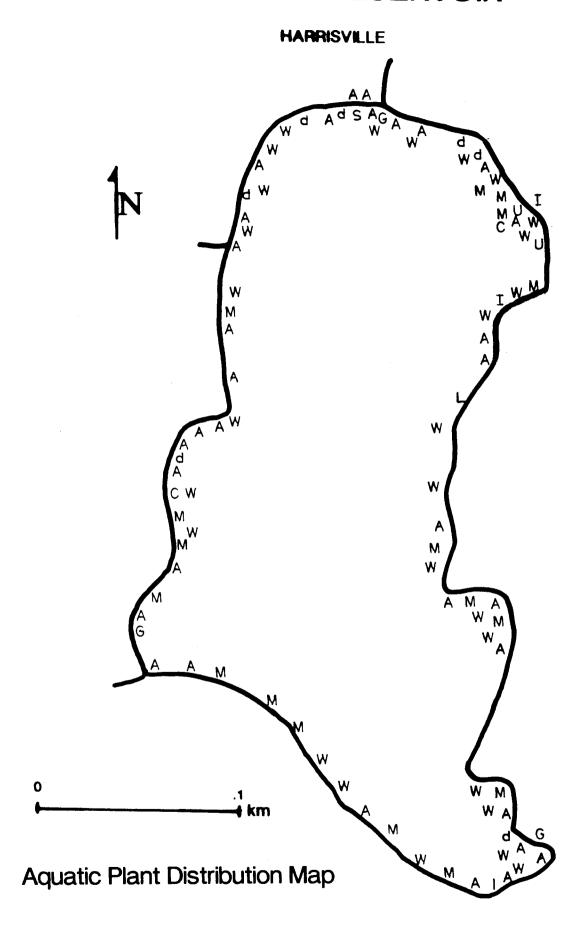
COMMENTS:

BOTTOM DEPTH (m): 6.0

TIME: 1230

*Dissolved oxygen values are in mg/L

SEAVER RESERVOIR



AQUATIC PLANT SURVEY

LAK	E: SEAVER RESERVOIR	TOWN: HARRISVILLE	DATE: 09/06/90	
Key	PLANT	NAME	ABUNDANCE	
I.C.y	GENERIC	COMMON	ABUNDANCE	
A	Sagittaria	Arrowhead	Common	
G	Gramineae	Grass family	Sparse	
W	Potamogeton	Pondweed	Common	
М	Myriophyllum humile	Water milfoil	Scattered	
d	Dulichium arundinaceum	Three-way sedge	Scattered	
С	Cyperaceae	non-flowering sedge	Sparse	
X	-	Bottom growth	Common	
บ	Utricularia	Bladderwort	Sparse	
I	Iris	Iris	Sparse	
S	Sparganium	Bur reed	Sparse	
L	Lysimachia terrestris	Swampcandle	Sparse	
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OVERALL ABUNDANCE: Common

GENERAL OBSERVATIONS:

- 1. Plants were common along the immediate shore but caused no problem to navigation.
- 2. Many small, 3 to 4 inch bass were observed.